

RESUME

Personal Information

Name:	PROF. DR. MUHAMMAD HARRIS SHOAB Dean Faculty of Pharmacy and Pharmaceutical Sciences University of Karachi Editor in Chief, Pakistan Journal of Pharmaceutical Sciences		
Discipline:	Pharmacy and Pharmaceutical Sciences	Institution:	University of Karachi
Gender:	Male	Department:	Pharmaceutics
Specialization:	Pharmaceutics, Drug Delivery System. Clinical and Population, Pharmacokinetics (Bioequivalence, IVIVC) Formulation Development and Optimization, Pharmaco-economics etc.	Present Position:	Professor and Ex-Chairman, Department of Pharmaceutics, Faculty of Pharmacy and Pharmaceutical Sciences, University of Karachi
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Education

<i>Year</i>	<i>Degree</i>	<i>Field of Study</i>	<i>Institution/University</i>
1989	F.Sc	Pre-Medical	Govt. Admajee Science College, Karachi
1994	B. Pharm	Pharmacy	University of Karachi
1998	M. Phil	Pharmaceutics	University of Karachi
2004	Ph. D	Pharmaceutics	University of Karachi

Professional and Academic Experience

<i>Institution/ Organization</i>	<i>Position / Job Title</i>	<i>Period</i>	
		From	To
<i>University of Karachi</i>	Professor	10/03/2014	Date
<i>University of Karachi</i>	Associate Professor	19/05/2011	09/03/2014
<i>University of Karachi</i>	Assistant Professor	02/08/2004	19/05/2011
<i>University of Karachi</i>	Lecturer	29/02/2000	01/08/2004
<i>Hoechst Marion Roussel</i>	Production Pharmacist	23/11/1998	29/02/2000

Administrative Experience

Dean Faculty of Pharmacy and Pharmaceutical Sciences University of Karachi (2024-till date)

Acting Vice Chancellor University of Karachi (12-11-2025 to 21-11-2025)

Editor in Chief Pakistan Journal of Pharmaceutical Sciences

Chairman Department of Pharmaceutics, Faculty of Pharmacy and Pharmaceutical Sciences, University of Karachi (2015-2018)

Other Experience and Honors

- 1. Member Syndicate Elected University of Karachi (Professor constituency 2015-2018, 2022- till date)**
- 2. Member Syndicate Elected University of Karachi (Associate Professor constituency 2013-2014)**
- 3. Member Syndicate Elected University of Karachi (Assistant Professor constituency 2011-2013)**
- 4. Member Pharmacy Council of Pakistan (2006-2012)**
- 5. Member Academic Council, University of Karachi**
- 6. Member Senate University of Karachi**
- 7. Member Advanced Studies and Research Board (ASRB) 2021 till date**
- 8. Member Advanced Studies and Research Board (ASRB (2015-18)**
- 9. Ex-Member Executive Board International Center for Chemical and Biological Sciences (ICCBS) HEJ.**
- 10. Member Board of Faculty, Faculty of Pharmacy and Pharmaceutical Sciences, University of Karachi**
- 11. Member Board of Faculty of Pharmacy, Dow University of Health Sciences**
- 12. Member Board of Faculty of Pharmacy, Hamdard University**
- 13. Member Board of Faculty of Pharmacy, Ziauddin Medical University till 2019**
- 14. Chairman Board of Studies Department of Pharmaceutics, Faculty of Pharmacy, University of Karachi (2015-18)**
- 15. Member Board of Faculty, Jinnah University for Women, Karachi**
- 16. Convenor Technical sub-committee for the Purchase of Equipment for University of Karachi under PC-1 approved by HEC.**
- 17. Member committee for updating Karachi University Code Book**
- 18. Ex-Member University of Karachi committee for the Appointment of Adjunct Professor, Teaching Associate, Teaching Assistant and Visiting Faculty**
- 19. Incharge Bioavailability and Bioequivalence Lab, Research Institute of Pharmaceutical Sciences, University of Karachi**
- 20. Productive Scientist of Pakistan from Pakistan Science Foundation (2017)**
- 21. Convenor Post Graduate Admission (M Phil/Ph D) 2022**
- 22. Chairman Equivalence Committee, University of Karachi (2021-23)**
- 23. Member Admission Committee for Undergraduate/Masters Program 2022-2024**

Publication Statistics

Total number of Publications 172

Citations 2700

h-index 24

i10-index 74

List of Last 5 Years' Publications

S#	Last year (2025) Publications	Name of Journal	Impact factor	Page Nos.	Year of Publication
1.	QbD-derived development of multilayer cellulose based polymeric coated extended-release gastroretentive effervescent floating pellets of moxifloxacin and its in silico PBPK modeling	International Journal of Biological Macromolecules,	8.5	149730	2025
2	Surfactant-assisted co-lyophilization of celecoxib–A novel approach for melioration of manufacturability and biopharmaceutical characteristics	Journal of Drug Delivery Science and Technology	4.9	107256	2025
3.	Dissolving microneedle patches for transdermal delivery of paroxetine: in-vitro, ex-vivo studies and its PBPK modeling	Therapeutic Delivery	2.2	1-17	2025
4.	QbD-based formulation development and evaluation of lipid-cellulose-based extended-release multi-particulates of cinitapride and its in-silico PBPK modeling	International Journal of Biological Macromolecules	8.5	141388	2025
5.	RSM and AI based machine learning for quality by design development of rivaroxaban push-pull osmotic tablets and its PBPK modeling	Nature Scientific Report	3.9	7922	2025
6.	Formulation development and evaluation, in silico PBPK modeling and in vivo pharmacodynamic studies of clozapine matrix type transdermal patches	Nature Scientific Report3	3.9	12042	2025

Editorial and Reviewer Experience

Academic Editor of Frontiers in Chemistry and member Editorial Board of Pakistan Journal of Pharmaceutical Sciences. Reviewer of many international reputable journals published by Elsevier, Springer Nature, Wiley, Frontiers, Taylor and Francis, Hindawi etc.

Book Chapters

1. Shoaib MH, Yousuf RI, Ahmed FR, Ali FR, Qazi F, Ahmed K, Zafar F: Polymer Coatings for Pharmaceutical Applications. Polymers Coatings: Technology and Applications 2020:275 (Wiley Interscience)
2. Ahmed FR, Sikandar M, Shoaib MH, Ismail R, Yousuf KA (2022) Halloysite-Starch based Nano-Composites and Applications. Advanced Applications of Micro and Nano Clay: Biopolymer-based Composites 125:152-171 (Material Research Forum)
3. Shoaib MH, Sikandar M, Ahmed FR, Ali FR, Qazi F, Yousuf RI, Irshad A, Jabeen S, Ahmed K (2021) Applications of Polysaccharides in Controlled Release Drug Delivery System. In: Polysaccharides. p 607-656 (Wiley Interscience)

Post-Graduate Supervision

Type	Role	No. of Students Supervised & Awarded Degrees	No. of Students In Progress	
			HEC Funded	Non-HEC Funded
MS/M.Phil/M. Pharm	Supervisor	58	01	
MS/M.Phil.	Co-Supervisor			
PhD	Supervisor	25	03	18
Ph.D	Co-Supervisor			

HEC Funded NRPU Research Project

PRINCIPAL INVESTIGATOR

Project No: 6583

Title: Formulation Development Of Microemulsion-Based Hydrogel For Transdermal Delivery Of Drugs

Amount funded: 4.13 Million

Status: Completed

Project No: 10802

Title: "FORMULATION DEVELOPMENT OF HYDROGEL MICRONEEDLES FOR TRANSDERMAL DELIVERY OF PROTEINS"

Amount funded: 3.192 million

Status: Final Report submitted

CO-PRINCIPAL INVESTIGATOR

Project No: 17428

Title: Quality by Design (QbD), a multivariate system approach for the scale-up prediction of gastro retentive drug delivery system".

Amount Funded: PKR: 18. 5295 million

Status: In progress

Sindh HEC Funded SRPU Research Project

PRINCIPAL INVESTIGATOR

Application No: 216

Title: Fabrication and evaluation of microneedle based transdermal delivery of paroxetine

Amount funded: 2,828 million rupees

Status: Completed

LIST OF PhD STUDENTS SUPERVISED

No	Name	Research Topic	Year
1	Rabia Ismail Yousuf	"Pharmacokinetic studies of Levofloxacin 250mg Tablets in Local Population"	Degree awarded by 3(17) 11th & 19-11-2009.
2	Muhammad Hanif	DEVELOPMENT OF ORAL CONTROLLED RELEASE NIMESULIDE TABLETS AND ITS IVIVC STUDIES	3(02) 22-01-2013
3	Farya Zafar	DEVELOPMENT OF FAST DISPERSIBLE KTOPROFEN 100mg TABLETS	3(04) 28-03-2013
4	Iyad Naem Muhammad	"FORMULATION DEVELOPMENT AND OPTIMIZATION OF CEFUROXIME AXETIL TABLETS 250 MG BY DIRECT COMPRESSION AND ITS PHARMACOKINETIC STUDY IN LOCAL POPULATION"	3(07) 24-05-2013
5	Azhar Hussain	"Pharmacokinetics Studies of Ciprofloxacin Tablets in Local Population"	2(04) 26-06-2013
6	Huma Ali	FORMULATION DEVELOPMENT AND BIOWAIVER STUDIES OF DICLOFENAC POTASSIUM TABLETS	02(18)16-07-2014

7	Tariq Ali	USE OF DIFFERENT POLYMERS IN THE DEVELOPMENT OF CONTROLLED RELEASE TIZANIDINE TABLETS	02(04)15-08-2014
8	Hafiz Muhammad Arshad	PHARMACOKINETIC AND PHARMACOECONOMIC EVALUATION OF GATIFLOXACIN	02(30) 13-10-2014 & 31-10-2014
9	Shagufta Nesar	ASSESSMENT OF PRESCRIPTION ERRORS IN PATIENT CARE SETTINGS	2(48) 19-06-2015
10	Rabia Bushra	IN VITRO-IN VIVO CORRELATION (IVIVC) STUDIES OF ACELOFENAC TABLET	2(24) 11-12-2015
11	Lubna Bashir	EFFECT OF FOOD-DRUG INTERACTION ON THE PHARMACOKINETICS OF CEFPODOXIME PROXETIL IN HEALTHY SUBJECTS	02(50) 03-07-2017
12	Shazia Naz	DETERMINATION OF THE EFFECT OF ETHNIC VARIABILITY ON THE PHARMACOKINETICS OF CEFACLOR IN HEALTHY VOLUNTEERS	03(02) 11-10-2017
13	Sana Ghayas	DEVELOPMENT AND EVALUATION OF VALSARTAN ORAL CONTROLLED RELEASE FORMULATIONS	03(01) 18-01-2018
14	Wajiha iffat	FORMULATION DEVELOPMENT AND INVITRO ESTIMATION OF BILAYER TABLET OF NICORANDIL 80MG AND ATORVASTATIN 20MG	2018
15	Faisal Sultan	DEVELOPMENT AND EVALUATION OF COMBINATIVE THERAPEUTIC FORMULATION AND ITS ECONOMIC IMPACT	02(16) 06-09-2018
16	Faseeh Abdus Salam	DEVELOPMENT OF COST EFFECTIVE THREE IN ONE TABLET FORMULATION CONTAINING OFLOXAICN, FEXOFENADINE AND DICLOFENAC POTASSIUM	02(19) 06-09-2018
17	Riffat Yasmin	FORMULATION DEVELOPMENT OF FAST DISPERSIBLE ACELOFENAC 100mg TABLETS	02(25) 29-10-2018
18	Faaiza Qazi	DEVELOPMENT AND EVALUATION OF DIFFERENT FORMULATIONS OF MECLIZINE HYDROCHLORIDE PELLETS	03(02) 14-12-2018
19	Farrukh Rafiq Ahmed	DEVELOPMENT AND EVALUATION OF HALLOYSITE NANOTUBES(HNTS) BASED ORAL SUSTAINED RELEASE FORMULATIONS FOR HYDROPHILIC DRUG CANDIDATES	03(05) 14-12-2018
20	Kamran Ahmed	DEVELOPMENT AND EVALUATION OF ORAL CONTROLLED RELEASE EPERISONE HYDROCHLORIDE FORMULATIONS	03(05) 16 & 22-02-2019
21	Zebun Nisa	DEVELOPMENT AND EVALUATION OF ORAL CONTROLLED RELEASE FORMULATION OF DIMENHYDRINATE	03(02) 28-03-2019
22.	Talha Usmani	PHARMACEUTICAL FORMULATION DEVELOPMENT OF CIPROFLOXACIN CHEWABLE TABLET	2023
23	Rabia Habib	FORMULATION DEVELOPMENT AND STABILITY STUDIES OF ARTEMETHER AND LUMEFANTRINE AS DISPERSIBLE TABLETS	2023
24	Tazeen Hussain	TO STUDY THE DRUG LOADING AND RELEASE CHARACTERISTICS OF DIFFERENT HYDROPHILIC AND HYDROPHOBIC DRUGS FROM HALLOYSITE NANOTUBES	2023
25	Fatima Ramzan	FORMULATION DEVELOPMENT OF HYDROGEL MICRONEEDLE FOR TRANSDERMAL DELIVERY OF THERAPEUTIC PROTEIN	2023

LIST OF M. Phil STUDENTS SUPERVISED

S. No	Name	Research Topic	Year
1	Ms. Rabia Ismail Yousuf	FORMULATION DEVELOPMENT OF LEVOFLOXACIN TABLET BY DIRECT COMPRESSION METHODS.	2004
2	Kamran Zaheer Mr.	NOVEL FORMULATION DEVELOPMENT OF OFLOXACIN (200mg) TABLET BY DIRECT COMPRESSION METHOD.	2005
3	Shatufta Nisar Ms.	Antimicrobial Susceptibility Testing of Newer Quinolones Against Gram Positive and Gram Negative Clinical Isolates.	2006
4	Farya Zafar Ms.	"Formulation Development of Fexofenadine Tablet from Direct Compression"	2006
5	Ms. Huma Ali	Development of Chlorpheniramine Maleate Tablet by Direct Compression method.	2(9) Dated 16 & 20-03-2007.
6	Ms. Riffat Yasmin	"FORMULATION DEVELOPMENT OF ATENOLOL TABLET 50mg AND ITS COMPARATIVE EVALUATION WITH OTHER MARKETED BRANDS"	Degree awarded by 3(5) 14-07-2007
7	Shabana Tahir	To Evaluate the Quality of Water for Injections and Small Volume Parenteral available in the Local Market.	2(10) Dated 17-12-07
8	Halima Khalid	"DEVELOPMENT OF DIFFERENT FORMULATIONS OF ACETAMINOPHEN TABLETS AND ITS COMPARATIVE EVALAUTON WITH OTHER MARKETED BRANDS"	Degree awarded by 3(6) 14-07-2007
9	Rabia Bushra	"FORMULATION DEVELOPMENT OF ENTERIC COATED IBUPROFEN TABLETS BY USING SUPERDISINTEGRANTS"	Degree awarded by 3(9) 17-12-2007
10	Durriya Hashmat	"FORMULATION DEVELOPMENT OF ENTERIC COATED FLURBIPROFEN TABLETS BY USING SUPERDISINTEGRANTS"	3(10) Dated 17-12-2007.
11	Syeda Saba Aleem	"EFFECTS OF SUPER DISINTEGRATORS IN THE DEVELOPMENT OF CIPROFLOXACIN TABLETS"	Degree awarded by 2(1) 16-06-2008 & 07-07-2008.
12	Faaiza Qazi	COMPARATIVE EVALUATION AND INVITRO RELEASE KINETIC STUDIES OF DIFFERENT CONTROLLED RELEASE DILTIAZEM HCl FORMULATIONS	2(04) 05-01-2011 & 11-01-2011
13	Kamran Ahmed	DEVELOPMENT AND EVALUATION OF ORAL CONTROLLED RELEASE DICLOFENAC POTASSIUM FORMULATION	03(23) 13-06-2011 & 15-06-2011
14	Naheeda Perveen	BIOWAIVER STUDIES OF AMLODIPINE DIHYDROCHLORIDE TABLETS	03(26) 25-10-2011
15	Mehreen Raza	ANTIMICROBIAL SUSCEPTIBILIGY TESTING OF COMMONLY USED AND NEWER FLUOROQUINOLONES AGAINST THE GRAM POSITIVE AND GRAM NEGATIVE CLINICAL ISOLATES	03(01) 17-01-2012
16	Misbah Iqbal	BIOWAIVER STUDIES OF PARACETAMOL TABLETS	02(03) 28-03-2012
17	Muhammad Talha Usmani	DEVELOPMENT OF ORALLY DISINTEGRATING MONTELUKAST TABLET"	02(03) 26-09-2012
18	Sammar Shakeel	BIOWAIVER STUDIES OF CETIRIZINE DIHYDROCHLORIDE TABLETS	3(08) 25-07-2013
19	Tazeen Husain	BIOWAIVER STUDIES OF METOPROLOL TABLETS	3(34) 04-12-2013
20	Fahad Siddiqui	DEVELOPMENT OF COAST EFFECTIVE FORMULATION OF PREFLOXACIN IMMEDIATE RELEASE TABLETS	2(17) 27-03-2015
21	Madeeha Khan	FORMULATION DEVELOPMENT OF FLURBIPROFEN (IR) TABLETS AND ITS	3(04) 26-05-2015

COMPARATIVE EVALUATION WITH OTHER MARKETED FORMULATIONS			
22	Zubair Sulemani	COST- EFFECTIVENESS ANALYSIS OF DIFFERENT MONTELUKAST BRANDS AVAILABLE IN THE MARKET	2(20) 27-01-2016
23	Sumair	FORMULATION DEVELOPMENT AND EVALUATION OF ORAL NYSTATIN GEL	2(24) 27-01-2016
24	Muhammad Owais Abdul Ghaffar	FORMULATION DEVELOPMENT AND OPTIMIZATION OF ITOPRIDE HCI 50MG TABLETS BY DIRECT COMPRESSION METHOD	2(16) 26-12-2016
25	Fatima Ramzan	FORMULATION DEVELOPMENT OF DEXIBUPROFEN FOR TRANSDERMAL DRUG DELIVERY	02(15) 13-04-2017
26	Saima Abedin	DEVELOPMENT OF ORAL CONTROLLED RELEASE OF FLOXACIN TABLET	02(08) 03-07-2017
27	Hafsa Aijaz	DEVELOPMENT AND EVALUATION OF SUSTAINED RELEASE TRIPROLODINE HYDROCHLORIDE FORMULATION	02(31) 13-04-2017
28	Irfah Hasan	DEVELOPMENT, PHYSICO-CHEMICAL AND IN-VITRO EVALUATION OF A TRANSDERMAL PATCH: LAMOTRIGINE AS A DRUG	02(06) 14-09-2017
29	Asma Kanwal	PHARMACOKINETIC STUDY OF GEMIFLOXACIN TABLET 320 MG IN LOCAL POPULATION	03(01) 15-11-2017
30	Muhammad Suleman Imtiaz	DEVELOPMENT OF TRANSDERMAL DRUG DELIVERY SYSTEM OF METOCLOPRAMIDE HCl	02(12) 18-01-2018
31	Hina Hassam	FORMULATION DEVELOPMENT OF NIMESULIDE FOR TRANSDERMAL DRUG DELIVERY	2019
30	Muhammad Talha Saleem	DEVELOPMENT AND OPTIMIZATION OF ORAL CONTROLLED RELEASE FORMULATION OF TRAMADOL	2020
31	Muhammad Sikandar	DEVELOPMENT OF HNT BASED TRANSDERMAL DELIVERY OF PROPRANOLOL HCL	2021
32	Monica Parkash	FABRICATION AND EVALUATION OF TRANSDERMAL PATCHES OF METOCLOPRAMIDE HYDROCHLORIDE AUGMENTED WITH HALLOYSITES NANOTUBES	2023

LIST OF M. PHARM STUDENTS SUPERVISED

S. No	Name of Student	Research Topic	Year
1	Hanif Bangash	Pharmaceutical Quality Analysis of different brands of Paracetamol Tablets available in the local market	2004
2	Sadaf Naz	Formulation development of Verapamil HCl tablets by Direct compression method	
3	Hamid Merchant	Once daily tablet formation and in-vitro release evaluation of Cefpodoxime SR tablets	2005
4	Javaria Tazeen	Evaluation of drug release kinetics from ibuprofen matrix tablets using HPMC	2005
5	Imran Khalid	Formulation Development of effervescent Ofloxacin tablets	2006
6	Ghiasuddin	Development of Effervescent Naproxen Tablets	
7	Wajiha Iffat	Antimicrobial Susceptibility Testing of Newer Quinolones Against Gram positive and Gram negative clinical isolates	2007
8	Sana Ghias	Biowaiver studies of different oral Gatifloxacin products available in the local market	2009
9	Nadeem Baloch	Identification and evaluation of error in antibiotic prescription in Government and private hospitals	2009
10	Sana Saleem	Formulation Development and Biowaiver studies of Sulbutamol Sulphate 2mg Tablet brands available in the local market	2009

11	Khalid Mehmood	Identification and evaluation of errors in prescription of infants and children	2008
12	Munir Ahmed	Development of Metronidazole Tablets by Direct Compression method	2005
13	Fahim Lakhani	Development of Fast Dispersible Naproxen sodium tablets	
14	Wasim Ahmed	Studies on the Formulation Development of Amodaquine tablets by Direct compression method	2009
15	Rabia Rehman	Formulation development of Flurbiprofen tablets by Direct compression method	
16	Nousheen Aslam	Identification and evaluation of errors in Paediatric Prescription	
17	Nasir Naeem	Formulation development of Meloxicam tablets by Direct Compression method	2007
18	Aisha Tabassum	Pharmaceutical Analysis of Different brands of Ibuprofen Tablets available in the local market	2007
19	Shahzad Ahmed	Formulation Development of Chlorpropamide 450mg Tablets by Direct Compression Method	2009
20	Sadia Jameel	Development of different formulation of Pioglitazone HCl tablets and its comparative evaluation with other marketed brands	2009
21	Muhammad Ziaul Haq	Identification and evaluation of errors in prescription of Gynaecological and Obstetrics cases	2008
22	Saima Sadaf	Development of Fast Dispersible Montelukast sodium 10mg tablets	2008
23	Chetan Dev	Formulation Development of Artemether 40mg tablets by Direct compression method	2007
24	Talat Ejaz	Dissolution method development and validation of Drotaverine HCl	2007